



#15

PATENT  
Customer Number 22,852  
Attorney Docket No. 02481.1734-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ursula SCHINDLER et al.

Group Art Unit: (unassigned)

Application No.: (unassigned)

Examiner: (unassigned)

Filed: (herewith)

For: SUBSTITUTED 4-AMINO-2-  
ARYL-PYRIMIDINES, THEIR  
PRODUCTION AND USE AND  
PHARMACEUTICAL  
PREPARATIONS CONTAINING  
SAME

**RECEIVED**  
AUG 04 2003  
TECH CENTER 1600/2900

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed within three months of the filing date of the above-referenced application.

Copies of the listed documents, including any copending patent applications, are attached.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

LAW OFFICES

JEGAN, HENDERSON,  
RABOW, GARRETT,  
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202-408-4000

In lieu of a statement of relevance or translation of the non-English documents, Applicants submit U.S. Patent No. 4, 493,726, which corresponds to EP 0 055 693. Similarly, U.S. Patent No. 6,162,819 corresponds to EP 0 908 456 A1. Additionally, English-language abstracts are submitted for the remaining non-English documents.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: Filed herewith

By: Carol P. Einaudi

Carol P. Einaudi  
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OMB No. 0651-0011  
INFORMATION DISCLOSURE CITATION  
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Atty. Docket No.	02481-1734-00	Serial No.	(unassigned)	<b>RECEIVED</b> AUG 04 2003 TECH CENTER 1600/2900	
Applicants	Schindler et al.	Filing Date	(herewith)		Group:

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	4,493,726	01/15/85	K. Burdeska			
	6,162,819	12/19/01	Schindler et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation Yes or No
EP 0 136 976 A2	04/10/85	EPO			Abstract
WO 98/37079	08/27/98	PCT			
06-192252	07/12/94	Japan			Abstract
EP 0 908 456A1	04/14/99	EPO			
EP 0 555 478A1	08/18/93	EPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Yu, S-M., et al., "Vasorelaxant Effect of Isoliquiritigenin, a Novel Soluble Guanylate Cyclase Activator, in Rat Aorta," <i>British Journal of Pharmacology</i> 114:1587-1594 (1995)
	Yu, S-M., et al., "Mechanism of Anti-Proliferation Caused by YC-1, an Indazole Derivative, in Cultured Rat A10 Vascular Smooth-Muscle Cells," <i>Biochem. J.</i> 306:787-792 (1995)
	Wu, Chin-Chung et al., "YC-1 Inhibited Human Platelet Aggregation Through NO-Independent Activation of Soluble Guanylate Cyclase," <i>British Journal of Pharmacology</i> 116:1973-1978 (1995)

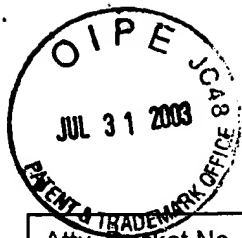
Examiner	Date Considered
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Sub Class	Translation Yes or No
EP 0 055 693	12/23/80	EPO			
DE 4034762 A1	05/07/92	Germany			No
DE 19756388 A1	06/25/99	Germany			No
DE 19744027 A1	04/08/99	Germany			No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Vesely, David L., "Phencyclidine Stimulates Guanylate Cyclase Activity," <i>Biochemical and Biophysical Research Communications</i> 88(4):1244-1248 (1979)
	Vesely, D.L., et al., "B Complex Vitamins Activate Rat Guanylate Cyclase and Increase Cyclic GMP Levels," <i>European Journal of Clinical Investigation</i> 15:258-262 (1985)
	Pettibone, D.J., et al., "A Structurally Novel Stimulator of Guanylate Cyclase with Long-Lasting Hypotensive Activity in the Dog," <i>European Journal of Pharmacology</i> 116:307-312 (1985)

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Nikolaenkova E.B. et al., "Synthesis of 4,6-Bis(1H-1,2,3-Triazolyl)Pyrimidines by the Reaction of 4,6-Diazido-2-(4-Methoxyphenyl)-Pyrimidine with Compounds Containing a Reactive Methylene Group," <i>Chemistry of Heterocyclic Compounds</i> 33(8):968-972 (1998)
Mülsch, Alexander et al., "Purification of Heme-Containing Soluble Guanylyl Cyclase," <i>Methods in Enzymology</i> 195:377-383 (1991)
Ko, Feng-Nien et al., "YC-1, a Novel Activator of Platelet Guanylate Cyclase," <i>Blood</i> 84(12):4226-4233 (1994)

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Ignarro, Louis J., "Regulation of Cytosolic Guanylyl Cyclase by Porphyrins and Metalloporphyrins," <i>Advances in Pharmacology</i> 26:35-65 (1994)
	Abstract for Japanese Patent No. 06192252, Ito Yoichi, "Pyrazine Derivative and Herbicide", Patent Abstracts of Japan.
	Abstract for EP Patent No. EP0136976, Seiler Alfred et al., "Use of Phenyl Pyrimidines as Plant Regulators", esp@cenet database.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Abstract for German Patent No. DE 19744027 A1, Schindler et al., "New Pyrazolo(3,4-b)pyridine Derivatives Useful as cGMP Agonists", Derwent WPI database.
	Abstract for German Patent No. DE 4034762 A, Braun et al., "Pyridyl Pyrimidine Derivs. - are Fungicides for Plant Protection and for Protecting and Preserving Industrial Materials", Derwent WPI database.
	Abstract for German Patent No. DE 19756388 A, Schindler et al., "New 2-aryl-4-amino-6,7-dimethoxy-quinazoline Derivatives Useful as Guanylate Cyclase Activators for Treating Cardiovascular Diseases, etc.", Derwent WPI database.

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